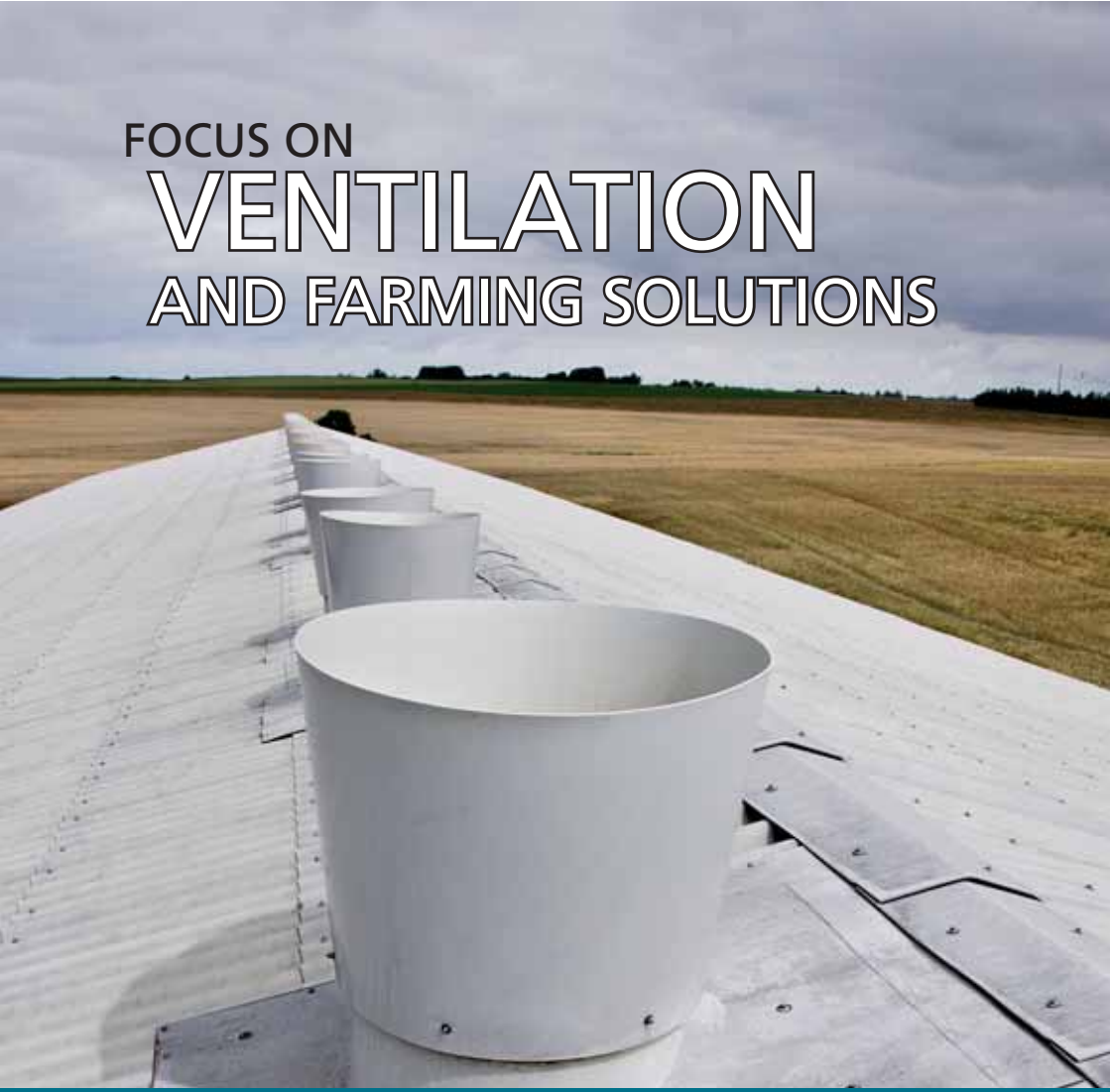


FOCUS ON
VENTILATION
AND FARMING SOLUTIONS



LINAK designs products that
improve productivity

www.techline.linak.com

Understanding your needs

For many years, LINAK® has been a sub-supplier to several ventilation equipment manufacturers and stable designers all over Europe. Our reference list is long and we are proud of our good reputation. However, we also know that an image like this does not create itself. Therefore, we work even harder when designing solutions and we know what it takes to supply actuator systems where flexibility and reliability are the top priority.

Ventilation equipment manufacturers and suppliers realise significant improvements by using linear actuators from LINAK. Easy installation, excellent feedback and integration are some of the features that may provide your business with a competitive advantage in the marketplace.

An electric actuator from LINAK is an obvious choice for harsh environments with moisture, dust and temperature changes; we know how essential a well-operating ventilation system is for the farmer.



Inlet valves

A simple and cost-effective solution for adjustment of the opening level of the inlet valves. The actuator adjusts the valve slowly and smoothly from 0 to 100% open.

Choose LINAK for...

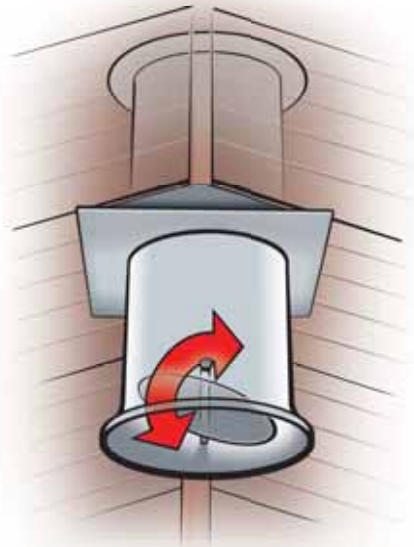
A Knowledgeable Partnership

Multilevel cooperation with our customers is extremely important, for the benefit of both LINAK and the customer. Partnership is the driving force behind R&D, aftersales, logistics, manufacturing, and marketing.



What LINAK has done for the ventilation industry for more than 20 years:

- Supplied maintenance-free products with a long lifetime
- Excellent feedback and positioning
- Supplied solutions where a high degree of protection-IP is required
- Designed customised solutions for the end users
- Provided systems with battery backup, alarm and safety options etc.
- Offered close cooperation with our well-educated sales and application engineers, represented in more than 30 countries
- Supplied actuators that are easy to install and operate



Ventilation dampers

As a strong alternative to rotary motors, LINAK can offer a small and robust actuator with very high IP-protection which can withstand the very rough environment that occurs in modern stables. Excellent feedback and positioning are essential when developing products for the agriculture industry.

APPLICATIONS FOR VENTILATION AND FARMING SOLUTIONS

Ventilation dampers

The actuator can be used for step-less opening and closing of ventilation dampers for air outlet, depending on temperature level, humidity or vacuum etc.

Feed units

In modern farming industries the amount of feed is measured very carefully. By using an actuator it is possible to adjust the feed flow proportionately according to the particular feeding programme required.

Natural ventilation

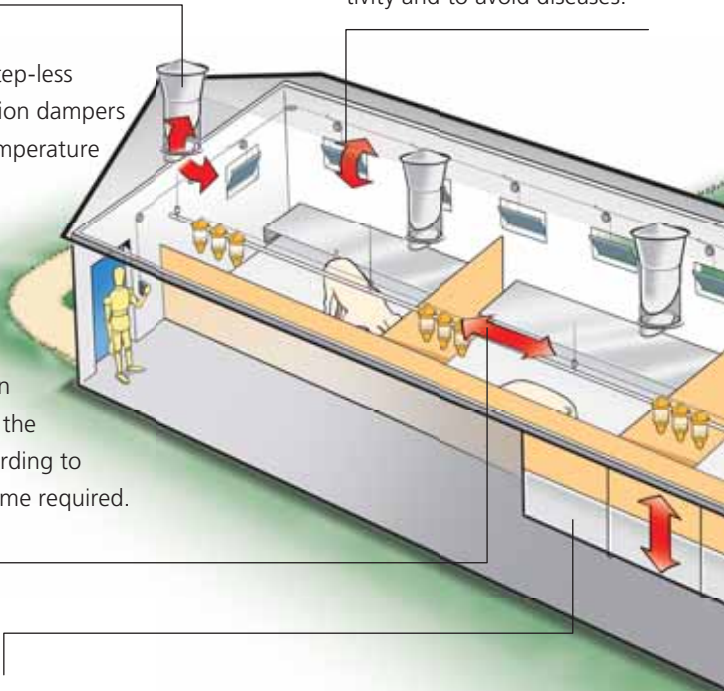
Changing the air is essential when working with animals. Therefore, natural ventilation is a must in many stables.

Cover lifts

Young pigs need warm and protected places where they can rest during the day. However, the farmer needs to check their condition occasionally. With electrical cover lifts he can gain an overview of the complete stable within minutes.

Inlet valves

Stepless adjustment of inlet valves to ensure an acceptable and healthy indoor climate in order to increase the productivity and to avoid diseases.



Choose LINAK for...

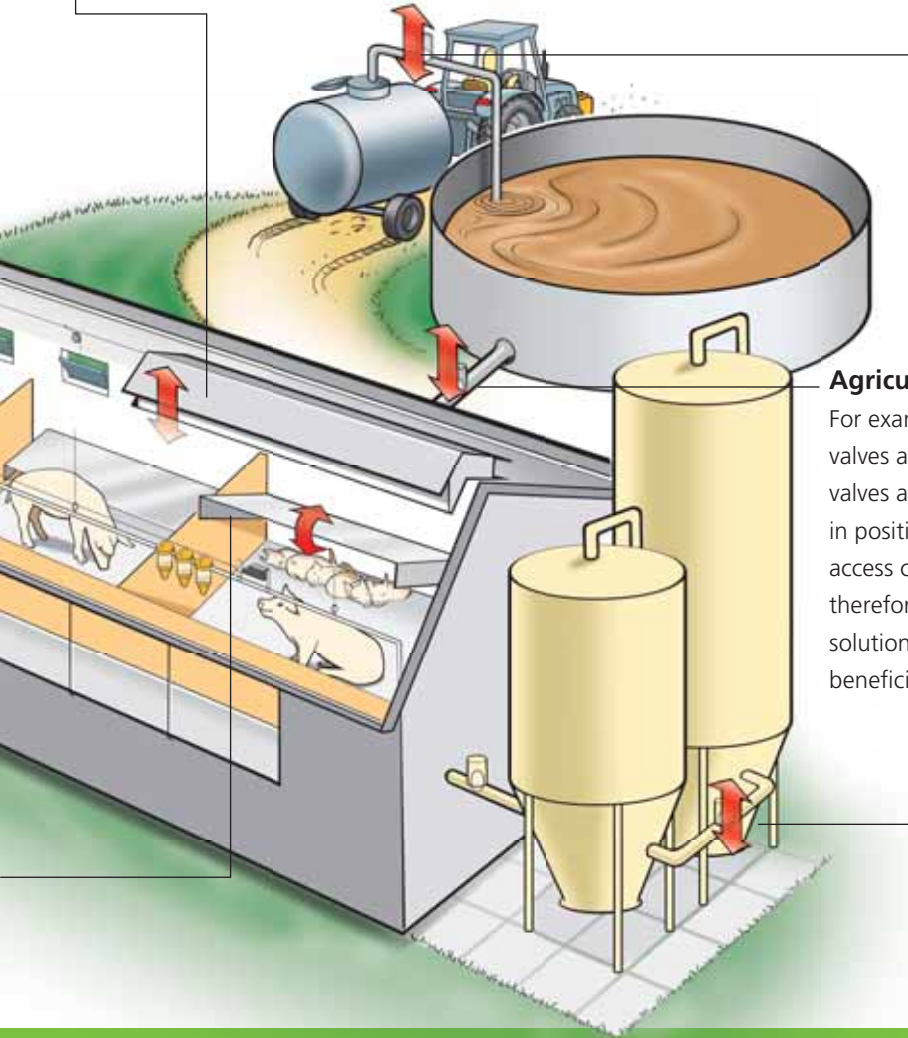
Knowledge

At LINAK we focus on our core competence – production of actuator systems. But we do more than this. We want to understand our customer's business by focusing on the individual customer's needs, market intelligence, and application know-how.



Natural ventilation

Changing the air is essential when working with animals. Therefore, natural ventilation is a must in many stables.



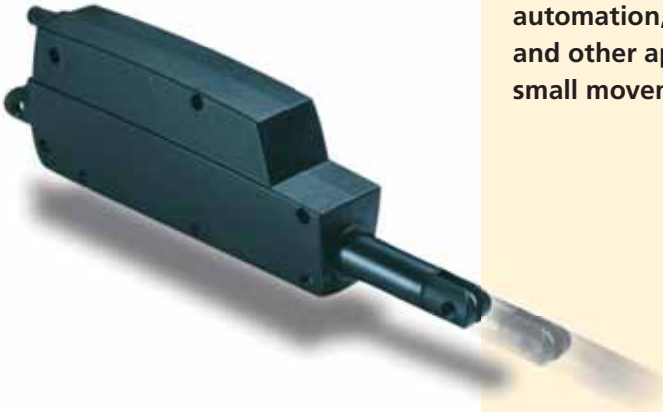
Agriculture valves

For example slurry valves and fodder valves are often placed in positions where access can be limited; therefore, electrical solutions can be very beneficial for the user.

ACTUATORS FOR VENTILATION AND FARMING SOLUTIONS

SMALL AND ROBUST

LA12



- Max thrust 750 N
- Max speed 50 mm/sec
- Standard stroke length 40-130 mm
- High quality reinforced plastic housing protects motor and gear
- Voltage 12-24 V DC
- Hall sensors or potentiometer for relative or absolute positioning
- Protection class IP 51 or IP 66

The LA12 is ideal for industrial automation, ventilation systems and other applications where small movements are required.

Choose LINAK for...

Robust and powerful

LINAK products are reliable products, made to last! High quality is the trademark of LINAK, and an element of the highest importance to us.



FLEXIBLE AND POWERFUL

- Max thrust up to 6,000 N in push and up to 4,000 N in pull
- Heavy-duty aluminium housing for harsh conditions
- Protection class IP 66 dynamic, IP 69K static
- Stroke up to 600 mm
- Easy to use interface – with integrated power electronics for direct connection to control system
- Potential free limit switches as an option
- Hall sensors or potentiometer for relative or absolute feedback, regardless of the stroke length
- Built-in limit switches and brake
- Voltage 12 or 24 V DC



LA35

The LA35 actuator is a new member of the TECHLINE™ family. It is characterised by its robust design allowing the actuators to be used in harsh and extreme conditions.

LIGHT AND FLEXIBLE

- Max thrust up to 3,500 N
- Max speed 46 mm/sec
- Standard stroke length 100-600 mm
- High-strength plastic housing protects motor and gear
- Elegant and compact design, very easy to clean
- Voltage 12 or 24 V DC
- Protection class IP 51 or IP 66



LA28

Primarily a system actuator that fits a broad selection of industrial applications. The actuator is noiseless and it has small built-in dimensions.

ACTUATORS FOR VENTILATION AND FARMING SOLUTIONS

VERSATILE AND POWERFUL

- Max thrust up to 6,000 N push and 4,000 N pull
- Max speed up to 33 mm/sec
- Standard stroke length 100-300 mm
- Build-in limit switches
- Protection class IP 51, IP 54 or IP 66
- High quality reinforced plastic housing protects motor and gear
- Voltage 12 or 24 V DC
- High self-looking ability

The LA31 actuator is a very quiet and powerful actuator designed for a variety of applications including light mobile applications and factory automation.



STRONG AND QUICK

- Max thrust up to 6,000 N
- Max speed up to 65 mm/sec
- Standard stroke length 100-600 mm
- Elegant and compact design, very easy to clean
- 12 or 24 V DC magnet motor
- Protection class IP 51 or IP 66



Powerful actuator, which is available with a ball screw to optimise performance. Possibility of many special options. Small installation dimensions and easy to clean.

Choose LINAK for...

Global Presence

LINAK has a well-developed sales and service organisation in Europe, America, Asia, and Australia. Therefore, we can assist you and your customers locally, under the global sales concept idea: Be global, act local



ACCESSORIES

RELIABLE AND TOUGH

- Max thrust up to 10,000 N
- Max speed up to 160 mm/sec
- Standard stroke 100-999 mm
- Heavy duty aluminum housing for harsh conditions
- Protection class IP 66 / IP 69K
- Integrated brake, high self-locking ability
- Voltage 12, 24, or 36 V DC
- Hall sensors or potentiometer for relative or absolute feedback

The LA36 actuator is our most solid and powerful actuator designed to operate under extreme conditions, a very strong alternative to hydraulic or pneumatic solutions.

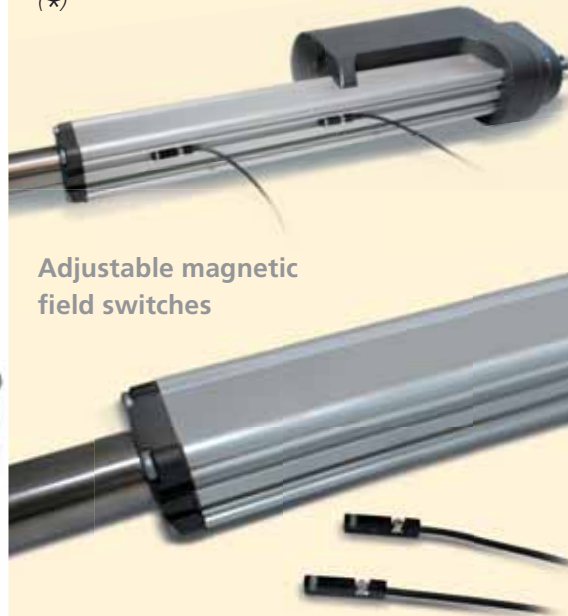
LA36



ADJUSTABLE SWITCHES

- Can be placed along the complete stroke length
- High switching power
- Long electrical lifetime
- Mountings can be made on several cylinders on the market
- IP 66 with a 3 meter cable

(*)



Adjustable magnetic field switches

ACCESSORIES

STEPLESS CONTROL

- Accuracy $\pm 1\%$
- Start and stop ramp
- Overload protected
- Adjustable current limit
- Adjustable range
- Stepless from 0 to 100% stroke

(*)



SERVO POSITIONER

COMPLETE CONTROL

- Power supply in 230 V AC
50/60 Hz 150 VA
- Out 24 V DC 6A Nominal
- Max 10 Amp.
- With or without TR-EM-208

(*)



CONTROL BOX

Choose LINAK for...

Innovation

Innovation is the key word to the success of LINAK. Today LINAK is the company within manufacturing of linear actuator systems to bring most new products to the market and to hold most technology-based patents. Therefore we can always offer the newest technology, giving our customers a competitive edge.



COMPLETE CONTROL

- Variable power supply 12-36 V DC
- Overload protection - adjustable current limit 1-20 A
- Adjustable soft start and stop
- Several version for different applications
- Integrated brake

(*)



**MOTOR CONTROLLER
TR-EM-208**

EASY OPERATION

- For all actuators with limit switches
- Easy operation of actuators without use of further electronics
- IP 66 for outdoor use
- Easy to install
- Tested with an LA36 12 V DC for 50,000 operations

(*)



ROCKER SWITCH

(*) *"The specified product is a third party product that is produced by third party and distributed by LINAК as a supplement to LINAК's existing product range. It is the responsibility of the product user to determine the suitability of the product for a specific application. LINAК will at point of delivery replace/repair defective products covered by the warranty if promptly returned to LINAК."*

BROAD PRODUCT RANGE – FOR ALL DEMANDS

LINAKs TECHLINE™ products are designed to function under harsh conditions. This makes us the ideal partner for system builders within the ventilation industry and related areas. Moreover, the many optional possibilities make electric linear actuator systems a good and economic alternative to gear motors, air and hydraulics.

It must be easy for the customers to do business with LINAK. Therefore, we offer both standard components and customised special solutions according to demand. The customer has the task and the demands and in close cooperation with our sales consultants and our engineering staff, we prepare an optimal solution.



100% function test

The LINAK Group has extensive test facilities. All products go through a 100% function test before leaving the factory.

PRODUCT TESTING

Our products undergo thorough climatic, electrical and mechanical testing.

Testing for resistance to both dust and water



CLIMATIC TESTING:

- Extreme Temperatures
- Rapid Temperature Changes
- Salt Spray
- Chemicals

ELECTRICAL TESTING:

- Power Supply
- Power & Signal Cables
- Control Signals
- Electrical Immunity

MECHANICAL TESTING:

- Vibration
- Shock
- Bump



As technology advances, LINAK will continue to develop products that improve the quality of people's lives and their working environment.

OTHER CAPABILITIES

TECHLINE™ - FOR HARSH CONDITIONS

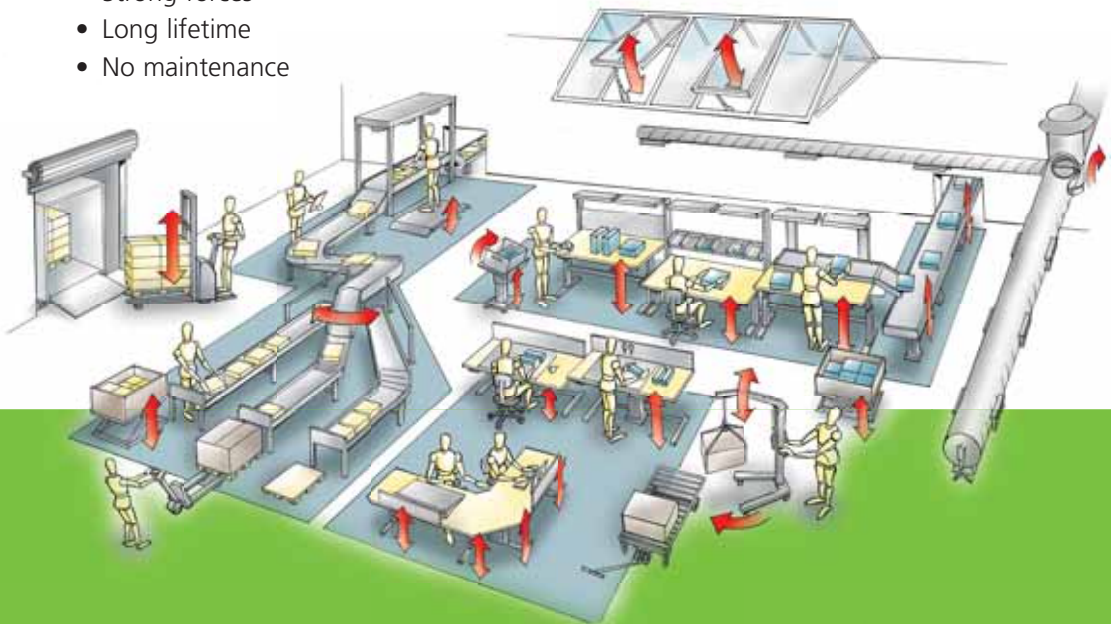
The TECHLINE™ systems ease the load and make work easier. The remarkably wide product range offers something for any imaginable type of movement i.e. in industrial and agricultural machinery. With these actuators you can easily reach inaccessible places, open or close sun blinds and roof windows, regulate ventilators, close gates automatically – and save yourself exertion.

- For harsh conditions
- High speeds
- Strong forces
- Long lifetime
- No maintenance

Stationary applications

Linear actuators make it possible to easily and economically adjust various functions in a wide number of stationary applications. LINAK TECHLINE™ solutions can improve several facets of your company's working environment including ergonomic lifting, cost-effective automation, and ventilation.

Our comprehensive product programme can be tailored to match your specific needs. LINAK TECHLINE™ solutions allow you to adapt your workplace to your workers rather than the other way round.



Mobile applications

Linear actuators from LINAK can be used for thousands of different applications. We offer big advantages compared to other linear movements in mobile equipment. Please contact your local LINAK office who has extensive experience in integrating our products into different applications.

When LINAK develops and produces products, quality is the keyword for our employees. LINAK constantly strives to improve the quality and to reduce the risk of faults, which contributes to the fact that our customers experience LINAK as a supplier of high-quality products.



LINEAR ACTUATOR TECHNOLOGY

LINAK - many years of experience from the industry

LINAK has over 25 years' experience as a supplier of linear movement for a broad selection of mobile and stationary applications in the industrial sector.

Application examples are automation of machine plants, adjustment of agricultural equipment, regulation of roof light windows, ventilation systems, combine harvesters, assembly lines, kettles, valves, and throttles. In brief, any purpose in the industry where a linear movement is required and where LINAK TECHLINE™ can be used to facilitate working operations and maintenance.

TERMS OF USE

The user is responsible for determining the suitability of LINAK products for a specific application. LINAK takes great care in providing accurate and up-to-date information on its products. However, due to continuous development in order to improve its products, LINAK products are subject to frequent modifications and changes without prior notice. Therefore, LINAK cannot guarantee the correct and actual status of said information on its products. While LINAK uses its best efforts to fulfil orders, LINAK cannot, for the same reasons as mentioned above, guarantee the availability of any particular product. Therefore, LINAK reserves the right to discontinue the sale of any product displayed on its website or listed in its catalogues or other written material drawn up by LINAK.

All sales are subject to the Standard Terms of Sale and Delivery for LINAK. For a copy hereof, please contact LINAK.

www.techline.linak.com

LINAK® 

WE IMPROVE YOUR LIFE